



MAJOR SOURCE OPERATING PERMIT

Permitee: **Henry Brick Company, Inc**

Facility Name: **Henry Brick Company, Inc.**

Facility No.: 104-0005

Location: Selma, Alabama

In accordance with and subject to the provisions of the Alabama Air Pollution Control Act of 1971, as amended, Ala. Code §§22-28-1 to 22-28-23 (1997 Rplc. Vol. and 2005 Cum. Supp.) (the "AAPCA") and the Alabama Environmental Management Act, as amended, Ala. Code §§22-22A-1 to 22-22A-15 (1997 Rplc. Vol. and 2005 Cum. Supp.), and rules and regulations adopted thereunder, and subject further to the conditions set forth in this permit, the Permittee is hereby authorized to construct, install and use the equipment, device or other article described above.

*Pursuant to the **Clean Air Act of 1990**, all conditions of this permit are federally enforceable by EPA, the Alabama Department of Environmental Management, and citizens in general. Those provisions which are not required under the **Clean Air Act of 1990** are considered to be state permit provisions and are not federally enforceable by EPA and citizens in general. Those provisions are contained in separate sections of this permit.*

Issuance Date: *Draft*

Expiration Date: *Draft*

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General Permit Provisos

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<p>1. <u>Transfer</u></p> <p>This permit is not transferable, whether by operation of law or otherwise, either from one location to another, from one piece of equipment to another, or from one person to another, except as provided in Rule 335-3-16-.13(1)(a)5.</p> <p>2. <u>Renewals</u></p> <p>An application for permit renewal shall be submitted at least six (6) months, but not more than eighteen (18) months, before the date of expiration of this permit.</p> <p>The source for which this permit is issued shall lose its right to operate upon the expiration of this permit unless a timely and complete renewal application has been submitted within the time constraints listed in the previous paragraph.</p> <p>3. <u>Severability Clause</u></p> <p>The provisions of this permit are declared to be severable and if any section, paragraph, subparagraph, subdivision, clause, or phrase of this permit shall be adjudged to be invalid or unconstitutional by any court of competent jurisdiction, the judgment shall not affect, impair, or invalidate the remainder of this permit, but shall be confined in its operation to the section, paragraph, subparagraph, subdivision, clause, or phrase of this permit that shall be directly involved in the controversy in which such judgment shall have been rendered.</p> <p>4. <u>Compliance</u></p> <p>(a) The permittee shall comply with all conditions of ADEM Admin. Code 335-3. Noncompliance with this permit will constitute a violation of the Clean Air Act of 1990 and ADEM Admin. Code 335-3 and may result in an enforcement action; including but not limited to, permit termination, revocation and reissuance, or modification; or denial of a permit renewal application by the permittee.</p> <p>(b) The permittee shall not use as a defense in an enforcement action that maintaining compliance with conditions of this permit would have required halting or reducing the permitted activity.</p>	<p>Rule 335-3-16-.02(6)</p> <p>Rule 335-3-16-.12(2)</p> <p>Rule 335-3-16-.05(e)</p> <p>Rule 335-3-16-.05(f)</p> <p>Rule 335-3-16-.05(g)</p>

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<p>5. <u>Termination for Cause</u></p> <p>This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance will not stay any permit condition.</p>	<p>Rule 335-3-16-.05(h)</p>
<p>6. <u>Property Rights</u></p> <p>The issuance of this permit does not convey any property rights of any sort, or any exclusive privilege.</p>	<p>Rule 335-3-16-.05(i)</p>
<p>7. <u>Submission of Information</u></p> <p>The permittee must submit to the Department, within 30 days or for such other reasonable time as the Department may set, any information that the Department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. Upon receiving a specific request, the permittee shall also furnish to the Department copies of records required to be kept by this permit.</p>	<p>Rule 335-3-16-.05(j)</p>
<p>8. <u>Economic Incentives, Marketable Permits, and Emissions Trading</u></p> <p>No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.</p>	<p>Rule 335-3-16-.05(k)</p>
<p>9. <u>Certification of Truth, Accuracy, and Completeness:</u></p> <p>Any application form, report, test data, monitoring data, or compliance certification submitted pursuant to this permit shall contain certification by a responsible official of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.</p>	<p>Rule 335-3-16-.07(a)</p>
<p>10. <u>Inspection and Entry</u></p> <p>Upon presentation of credentials and other documents as may be required by law, the permittee shall allow authorized representatives of the Alabama Department of</p>	<p>Rule 335-3-16-.07(b)</p>

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<p>Environmental Management and EPA to conduct the following:</p> <ul style="list-style-type: none"> (a) Enter upon the permittee's premises where a source is located or emissions-related activity is conducted, or where records must be kept pursuant to the conditions of this permit; (b) Review and/or copy, at reasonable times, any records that must be kept pursuant to the conditions of this permit; (c) Inspect, at reasonable times, this facility's equipment (including monitoring equipment and air pollution control equipment), practices, or operations regulated or required pursuant to this permit; (d) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or other applicable requirements. 	
<p>11. <u>Compliance Provisions</u></p> <ul style="list-style-type: none"> (a) The permittee shall continue to comply with the applicable requirements with which the company has certified that it is already in compliance. (b) The permittee shall comply in a timely manner with applicable requirements that become effective during the term of this permit. 	<p>Rule 335-3-16-.07(c)</p>
<p>12. <u>Compliance Certification</u></p> <p>A compliance certification shall be submitted annually by May 19th of each year.</p> <ul style="list-style-type: none"> (a) The compliance certification shall include the following: <ul style="list-style-type: none"> (1) The identification of each term or condition of this permit that is the basis of the certification; (2) The compliance status; 	<p>Rule 335-3-16-.07(e)</p>

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<p>(3) The method(s) used for determining the compliance status of the source, currently and over the reporting period consistent with Rule 335-3-16-.05(c) (Monitoring and Recordkeeping Requirements);</p> <p>(4) Whether compliance has been continuous or intermittent;</p> <p>(5) Such other facts as the Department may require to determine the compliance status of the source;</p> <p>(b) The compliance certification shall be submitted to:</p> <p style="padding-left: 40px;">Alabama Department of Environmental Management Air Division P.O. Box 301463 Montgomery, AL 36130-1463</p> <p style="padding-left: 80px;">and to:</p> <p style="padding-left: 40px;">Air and EPCRA Enforcement Branch EPA Region IV 61 Forsyth Street, SW Atlanta, GA 30303</p>	
<p>13. <u>Reopening for Cause</u></p> <p>Under any of the following circumstances, this permit will be reopened prior to the expiration of the permit:</p> <p>(a) Additional applicable requirements under the Clean Air Act of 1990 become applicable to the permittee with a remaining permit term of three (3) or more years. Such a reopening shall be completed not later than eighteen (18) months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which this permit is due to expire.</p> <p>(b) Additional requirements (including excess emissions requirements) become applicable to an affected source</p>	<p>Rule 335-3-16-.13(5)</p>

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<p>under the acid rain program. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into this permit.</p> <p>(c) The Department or EPA determines that this permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit.</p> <p>(d) The Administrator or the Department determines that this permit must be revised or revoked to assure compliance with the applicable requirements.</p>	
<p>14. <u>Additional Rules and Regulations</u></p> <p>This permit is issued on the basis of Rules and Regulations existing on the date of issuance. In the event additional Rules and Regulations are adopted, it shall be the permit holder's responsibility to comply with such rules.</p>	<p>§22-28-16(d), Code of Alabama 1975, as amended</p>
<p>15. <u>Equipment Maintenance or Breakdown</u></p> <p>(a) In the case of shutdown of air pollution control equipment (which operates pursuant to any permit issued by the Director) for necessary scheduled maintenance, the intent to shut down such equipment shall be reported to the Director at least twenty-four (24) hours prior to the planned shutdown, unless such shutdown is accompanied by the shutdown of the source which such equipment is intended to control. Such prior notice shall include, but is not limited to the following:</p> <p>(1) Identification of the specific facility to be taken out of service as well as its location and permit number;</p> <p>(2) The expected length of time that the air pollution control equipment will be out of service;</p>	<p>Rule 335-3-1-.07(1), (2)</p>

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<p>(3) The nature and quantity of emissions of air contaminants likely to occur during the shutdown period;</p> <p>(4) Measures such as the use of off-shift labor and equipment that will be taken to minimize the length of the shutdown period;</p> <p>(5) The reasons that it would be impossible or impractical to shut down the source operation during the maintenance period.</p> <p>(b) In the event that there is a breakdown of equipment or upset of process in such a manner as to cause, or is expected to cause, increased emissions of air contaminants which are above an applicable standard, the person responsible for such equipment shall notify the Director within 24 hours or the next working day and provide a statement giving all pertinent facts, including the estimated duration of the breakdown. The Director shall be notified when the breakdown has been corrected.</p>	
<p>16. <u>Operation of Capture and Control Devices</u></p> <p>All air pollution control devices and capture systems for which this permit is issued shall be maintained and operated at all times in a manner so as to minimize the emissions of air contaminants. Procedures for ensuring that the above equipment is properly operated and maintained so as to minimize the emission of air contaminants shall be established.</p>	<p>§22-28-16(d), Code of Alabama 1975, as amended</p>
<p>17. <u>Obnoxious Odors</u></p> <p>This permit is issued with the condition that, should obnoxious odors arising from the plant operations be verified by Air Division inspectors, measures to abate the odorous emissions shall be taken upon a determination by the Alabama Department of Environmental Management that these measures are technically and economically feasible.</p>	<p>Rule 335-3-1-.08</p>

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<p>18. <u>Fugitive Dust</u></p> <p>(a) Precautions shall be taken to prevent fugitive dust emanating from plant roads, grounds, stockpiles, screens, dryers, hoppers, ductwork, etc.</p> <p>(b) Plant or haul roads and grounds will be maintained in the following manner so that dust will not become airborne. A minimum of one, or a combination, of the following methods shall be utilized to minimize airborne dust from plant or haul roads and grounds:</p> <p>(1) By the application of water any time the surface of the road is sufficiently dry to allow the creation of dust emissions by the act of wind or vehicular traffic;</p> <p>(2) By reducing the speed of vehicular traffic to a point below that at which dust emissions are created;</p> <p>(3) By paving;</p> <p>(4) By the application of binders to the road surface at any time the road surface is found to allow the creation of dust emissions;</p> <p>Should one, or a combination, of the above methods fail to adequately reduce airborne dust from plant or haul roads and grounds, alternative methods shall be employed, either exclusively or in combination with one or all of the above control techniques, so that dust will not become airborne. Alternative methods shall be approved by the Department prior to utilization.</p>	<p>Rule 335-3-4-.02</p>
<p>19. <u>Additions and Revisions</u></p> <p>Any modifications to this source shall comply with the modification procedures in Rules 335-3-16-.13 or 335-3-16-.14.</p>	<p>Rule 335-3-16-.13 and .14</p>
<p>20. <u>Recordkeeping Requirements</u></p> <p>(a) Records of required monitoring information of the</p>	<p>Rule 335-3-16-.05(c)2.</p>

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<p>source shall include the following:</p> <ul style="list-style-type: none"> (1) The date, place, and time of all sampling or measurements; (2) The date analyses were performed; (3) The company or entity that performed the analyses; (4) The analytical techniques or methods used; (5) The results of all analyses; and (6) The operating conditions that existed at the time of sampling or measurement. <p>(b) Retention of records of all required monitoring data and support information of the source for a period of at least 5 years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation and copies of all reports required by the permit.</p>	
<p>21. <u>Reporting Requirements</u></p> <ul style="list-style-type: none"> (a) Reports to the Department of any required monitoring shall be submitted at least every 6 months. All instances of deviations from permit requirements must be clearly identified in said reports. All required reports must be certified by a responsible official consistent with Rule 335-3-16-.04(9). (b) Deviations from permit requirements shall be reported within 48 hours or 2 working day of such deviations, including those attributable to upset conditions as defined in the permit. The report will include the probable cause of said deviations, and any corrective actions or preventive measures that were taken. 	<p>Rule 335-3-16-.05(c)3.</p>
<p>22. <u>Emission Testing Requirements</u></p> <p>Each point of emission which requires testing will be provided with sampling ports, ladders, platforms, and other safety equipment to facilitate testing performed in</p>	<p>Rule 335-3-1-.05(3) and Rule 335-3-1-</p>

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<p>accordance with procedures established by Part 60 of Title 40 of the Code of Federal Regulations, as the same may be amended or revised.</p> <p>The Air Division must be notified in writing at least 10 days in advance of all emission tests to be conducted and submitted as proof of compliance with the Department's air pollution control rules and regulations.</p> <p>To avoid problems concerning testing methods and procedures, the following shall be included with the notification letter:</p> <ol style="list-style-type: none"> (1) The date the test crew is expected to arrive, the date and time anticipated of the start of the first run, how many and which sources are to be tested, and the names of the persons and/or testing company that will conduct the tests. (2) A complete description of each sampling train to be used, including type of media used in determining gas stream components, type of probe lining, type of filter media, and probe cleaning method and solvent to be used (if test procedures require probe cleaning). (3) A description of the process(es) to be tested including the feed rate, any operating parameters used to control or influence the operations, and the rated capacity. (4) A sketch or sketches showing sampling point locations and their relative positions to the nearest upstream and downstream gas flow disturbances. <p>A pretest meeting may be held at the request of the source owner or the Air Division. The necessity for such a meeting and the required attendees will be determined on a case-by-case basis.</p> <p>All test reports must be submitted to the Air Division within 30 days of the actual completion of the test unless an extension of time is specifically approved by the Air Division.</p>	<p>.04(1)</p> <p>Rule 335-3-1-.04</p> <p>Rule 335-3-1-.04</p>
<p>23. Payment of Emission Fees</p> <p>Annual emission fees shall be remitted each year according to the fee schedule in ADEM Admin. Code R. 335-1-7-.04.</p>	<p>Rule 335-1-7-.04</p>

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<p>24. <u>Other Reporting and Testing Requirements</u></p> <p>Submission of other reports regarding monitoring records, fuel analyses, operating rates, and equipment malfunctions may be required as authorized in the Department's air pollution control rules and regulations. The Department may require emission testing at any time.</p> <p>25. <u>Title VI Requirements (Refrigerants)</u></p> <p>Any facility having appliances or refrigeration equipment, including air conditioning equipment, which use Class I or Class II ozone-depleting substances as listed in 40 CFR Part 82, Subpart A, Appendices A and B, shall service, repair, and maintain such equipment according to the work practices, personnel certification requirements, and certified recycling and recovery equipment specified in 40 CFR Part 82, Subpart F.</p> <p>No person shall knowingly vent or otherwise release any Class I or Class II substance into the environment during the repair, servicing, maintenance, or disposal of any device except as provided in 40 CFR Part 82, Subpart F.</p> <p>The responsible official shall comply with all reporting and recordkeeping requirements of 40 CFR 82.166. Reports shall be submitted to the US EPA and the Department as required.</p> <p>26. <u>Chemical Accidental Prevention Provisions</u></p> <p>If a chemical listed in Table 1 of 40 CFR Part 68.130 is present in a process in quantities greater than the threshold quantity listed in Table 1, then:</p> <ul style="list-style-type: none"> (a) The owner or operator shall comply with the provisions in 40 CFR Part 68. (b) The owner or operator shall submit one of the following: <ul style="list-style-type: none"> (1) A compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR Part 68 § 68.10(a) or, 	<p>Rule 335-3-1-.04(1)</p> <p>40 CFR 82</p> <p>40 CFR Part 68</p>

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<p>(2) A certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of the Risk Management Plan.</p>	
<p>27. <u>Display of Permit</u></p> <p>This permit shall be kept under file or on display at all times at the site where the facility for which the permit is issued is located and will be made readily available for inspection by any or all persons who may request to see it.</p>	<p>Rule 335-3-14-.01(1)(d)</p>
<p>28. <u>Circumvention</u></p> <p>No person shall cause or permit the installation or use of any device or any means which, without resulting in the reduction in the total amount of air contaminant emitted, conceals or dilutes any emission of air contaminant which would otherwise violate the Division 3 rules and regulations.</p>	<p>Rule 335-3-1-.10</p>
<p>29. <u>Visible Emissions</u></p> <p>Unless otherwise specified in the Unit Specific provisos of this permit, any source of particulate emissions shall not discharge more than one 6-minute average opacity greater than 20% in any 60-minute period. At no time shall any source discharge a 6-minute average opacity of particulate emissions greater than 40%. Opacity will be determined by 40 CFR Part 60, Appendix A, Method 9, unless otherwise specified in the Unit Specific provisos of this permit.</p>	<p>Rule 335-3-4-.01(1)</p>
<p>30. <u>Fuel-Burning Equipment</u></p> <p>(a) Unless otherwise specified in the Unit Specific provisos of this permit, no fuel-burning equipment may discharge particulate emissions in excess of the emissions specified in Part 335-3-4-.03.</p> <p>(b) Unless otherwise specified in the Unit Specific provisos of this permit, no fuel-burning equipment may discharge sulfur dioxide emissions in excess of the emissions specified in Part 335-3-5-.01.</p>	<p>Rule 335-3-4-.03</p> <p>Rule 335-3-5-.01</p>

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<p>31. <u>Process Industries – General</u></p> <p>Unless otherwise specified in the Unit Specific provisos of this permit, no process may discharge particulate emissions in excess of the emissions specified in Part 335-3-4-.04.</p> <p>32. <u>Averaging Time for Emission Limits</u></p> <p>Unless otherwise specified in the permit, the averaging time for the emission limits listed in this permit shall be the nominal time required by the specific test method.</p> <p>33. <u>Permit Shield</u></p> <p>A permit shield exists under this operating permit in accordance with ADEM Admin. Code 335-3-16-.10 in that compliance with the conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issuance. The permit shield is based on the accuracy of the information supplied in Table III-A of the renewal application for this permit. Under this shield, it has been determined that requirements listed as non-applicable in Table III-A of the renewal application are not applicable to this source.</p>	<p>Rule 335-3-4-.04</p> <p>Rule 335-3-1-.05</p> <p>Rule 335-3-16-.10(1)</p>

Summary Page for Tunnel Kilns

Permitted

Operating Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
S-3 & S-4	Tunnel Kiln 1 & 2 each controlled with a Single Tower Granular Limestone Packed Bed Filter/Adsorber	PM	4.10(P) ⁶⁷	ADEM Admin. Code R. 335-3-4-.04
S-3 & S-4	Tunnel Kiln 1 & 2 each controlled with a Single Tower Granular Limestone Packed Bed Filter/Adsorber	SO ₂	N/A	N/A
S-3 & S-4	Tunnel Kiln 1 & 2 each controlled with a Single Tower Granular Limestone Packed Bed Filter/Adsorber	NO _x	N/A	N/A
S-3 & S-4	Tunnel Kiln 1 & 2 each controlled with a Single Tower Granular Limestone Packed Bed Filter/Adsorber	CO	N/A	N/A
S-3 & S-4	Tunnel Kiln 1 & 2 each controlled with a Single Tower Granular Limestone Packed Bed Filter/Adsorber	VOC	N/A	N/A
S-3 & S-4	Tunnel Kiln 1 & 2 each controlled with a Single Tower Granular Limestone Packed Bed Filter/Adsorber	HCl	0.26 lb/ton of fired product or 30% reduction of uncontrolled emissions	ADEM Admin. Code R. 335-3-16-.01
S-3 & S-4	Tunnel Kiln 1 & 2 each controlled with a Single Tower Granular Limestone Packed Bed Filter/Adsorber	HF	0.057 lb/ton of fired product or 90% reduction of uncontrolled emissions	ADEM Admin. Code R. 335-3-16-.01
S-3 & S-4	Tunnel Kiln 1 & 2 each controlled with a Single Tower Granular Limestone Packed Bed Filter/Adsorber	Opacity	(See General Proviso 29)	ADEM Admin. Code R. 335-3-4-.01(1)

Provisos for Tunnel Kilns

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<u>Applicability</u>	
1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
<u>Emission Standards</u>	
1. Particulate matter emissions from the Tunnel Kilns (S-3 & S-4) shall not exceed the allowable set by rule 335-3-4-.04.	Rule 335-3-4-.04
2. The Tunnel Kilns (S-3 & S-4) shall not discharge to the atmosphere HCL emissions in excess of 0.26 lb/ton of fired product or reduce uncontrolled HCL emissions by at least 30%.	Rule 335-3-16-.01
3. The Tunnel Kilns (S-3 & S-4) shall not discharge to the atmosphere HF emissions in excess of 0.057 lb/ton of fired product or reduce uncontrolled HF emissions by at least 90%.	Rule 335-3-16-.01
<u>Compliance and Performance Test Methods and Procedures</u>	
1. EPA Reference Method 9 of Appendix A of CFR; Title 40, Part 60 (Latest Edition) or alternative approved by the Department will be used in the determination of the opacity of the stack emissions.	Rule 335-3-1-.05
2. Method 5 of 40 CFR 60 Appendix A shall be used in the determination of particulate matter emissions.	Rule 335-3-1-.05
3. Method 26A of 40 CFR 60 Appendix A shall be used in the determination of HF and HCL emissions.	Rule 335-3-1-.05
<u>Emission Monitoring</u>	
1. Each source permitted under this unit shall be observed at least weekly for greater than normal visible emissions as determined by previous observations. Whenever observed visible emissions are greater than normal, maintenance inspections and/or corrective action to reduce the visible emissions are to be initiated within two hours, followed by an additional observation to confirm the emissions are reduced to normal.	Rule 335-3-16-.05(c)(1)
2. The CMS must collect the Dry Limestone Adsorber (DLA) pressure drop data; reducing the DLA pressure drop data to 3-hour block averages according; maintaining the average pressure drop across the DLA for each 3-hour block period at or above the average pressure drop established during the	Rule 335-3-14-.04-.01

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performance test.	
<p>3. A visual observation of the Dry Lime Absorber (DLA) stack shall be accomplished daily. If any visible emissions are observed, a certified personnel shall observe the emissions within two hours of initial observation. If the visible emission is determined to be greater than 10 % opacity , the facility shall investigate and initiate necessary corrective actions to reduce the visible emissions.</p>	Rule 335-3-14-.04-.01
<u>Recordkeeping and Reporting Requirements</u>	
<p>1. The facility shall maintain a record of all inspections, to include visible observations performed to satisfy the requirements of periodic monitoring. This shall include all problems observed and corrective actions taken. Each record shall be maintained for a period of 5 years.</p>	Rule 335-3-16-.05(c)
<p>2. The permittee shall submit a written report containing statements and information concerning emission limitation (emission limits, operating limits) deviations, out-of-control CMS, periods of startup, shutdown, or malfunction to the Department semi-annually.</p>	Rule 335-3-16-.05(c)

Summary Page for Brick Dryers

Permitted

Operating Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
D-1 & D-2	Brick Dryer 1	PM	4.10(P) ^{.67}	ADEM Admin. Code R. 335-3-4-.04
D-3	Brick Dryer 2			
D-1 & D-2	Brick Dryer 1	VOC	N/A	N/A
D-3	Brick Dryer 2			
D-1 & D-2	Brick Dryer 1	Opacity	(See General Proviso 29)	ADEM Admin. Code R. 335-3-4-.01(1)
D-3	Brick Dryer 2			

Provisos for Brick Dryers

Federally Enforceable Provisos	Regulations
<u>Applicability</u>	
1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
<u>Emission Standards</u>	
1. The sources associated with the Brick Dryers are subject to no other emissions standards other than those found in the General Provisos. This unit is subject to the emission standards listed in General Proviso 29 and General Proviso 31.	Rule 335-3-4-.01(1) Rule 335-3-4-.04
<u>Compliance and Performance Test Methods and Procedures</u>	
1. EPA Reference Method 9 of Appendix A of CFR; Title 40, Part 60 (Latest Edition) or alternative approved by the Department will be used in the determination of the opacity of the stack emissions.	Rule 335-3-1-.05
2. EPA Reference Method 5 of Appendix A of CFR; Title 40, Part 60 (Latest Edition) or alternative approved by the Department will be used for any testing conducted to determine compliance with particulate matter emissions.	Rule 335-3-1-.05
<u>Emission Monitoring</u>	
1. An observation of each emission point associated with this source will be accomplished at least weekly. If visible emissions greater than ten (10%) percent opacity are noted during the above-referenced visual checks, corrective action shall be initiated within 2 hours to reduce the emissions.	Rule 335-3-16-.05(c)
2. After the corrective action has been performed, the permittee shall conduct another visual check to ensure that the visible emissions have been eliminated.	Rule 335-3-16-.05(c)
<u>Recordkeeping and Reporting Requirements</u>	
1. Records of all visual checks and corrective actions taken shall be maintained in a form suitable for inspection and kept on site for a period of at least 5 years	Rule 335-3-16-.05(c)
2. The permittee shall submit a written report of exceedences of the stack opacity to the Department semi-annually.	Rule 335-3-16-.05(c)

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Summary Page for Shale Preparation

Permitted

Operating Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
SG-1	Shale Preparation Baghouse (shale grinding, screening, and conveying equipment)	PM	The lesser of 0.022gr/dscf or the allowable set by 4.10(P). ⁶⁷	40 CFR 60 – Subpart OOO ADEM Admin. Code R. 335-3-4-.04
SG-1	Shale Preparation Baghouse (shale grinding, screening, and conveying equipment)	Opacity	Stack emissions from Federal New Source Performance Standards (NSPS) 40 CFR 60 Subpart OOO affected units shall not exceed 7% opacity.	40 CFR 60 – Subpart OOO
BE-1	Building Emissions		10 % opacity from any transfer point on belt conveyors or from any other affected facility	
CT-11	Conveyor Transfer Point		The building enclosing the NSPS Subpart OOO affected units shall not exhibit any visible fugitive emissions except emissions from a vent	

Provisos for Shale Preparation

Federally Enforceable Provisos	Regulations
<u>Applicability</u>	
<ol style="list-style-type: none"> 1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, "Major Source Operating Permits". 2. This unit is subject to the applicable requirements of Federal New Source Performance Standards (NSPS) 40 CFR 60 Subpart OOO. 	<p>Rule 335-3-16-.03</p> <p>40 CFR 60 Subpart OOO</p>
<u>Emission Standards</u>	
<ol style="list-style-type: none"> 1. Particulate matter emissions from the Shale Preparation Baghouse (SG-1) shall not exceed the lesser of 0.022 gr/dscf or allowable set by rule 335-3-4-.04. 2. Stack emissions from Federal New Source Performance Standards (NSPS) 40 CFR 60 Subpart OOO affected units shall not exceed 7% opacity. 3. Fugitive emissions shall not exceed 10 % opacity from any transfer point on belt conveyors or from any other NSPS Subpart OOO affected facility. 4. The building enclosing NSPS Subpart OOO affected units shall not exhibit any visible fugitive emissions except emissions from a vent. 	<p>Rule 335-3-4-.04 40 CFR 60.672(a) (1)</p> <p>40 CFR 60.672(a) (2)</p> <p>40 CFR 60.672(b)</p> <p>40 CFR 60.672(e) (1)</p>
<u>Compliance and Performance Test Methods and Procedures</u>	
<ol style="list-style-type: none"> 1. EPA Reference Method 9 of Appendix A of CFR; Title 40, Part 60 (Latest Edition) or alternative approved by the Department will be used in the determination of the opacity of the stack emissions. 2. EPA Reference Method 9 of Appendix A of CFR; Title 40, Part 60 (Latest Edition), with the additions in 40 CFR 60.675(c), will be used in determining compliance with 40 CFR 60.672(b). 3. EPA Reference Method 5 of Appendix A of CFR; Title 40, Part 60 (Latest Edition) or alternative approved by the Department will be used for any testing conducted to determine compliance with particulate matter emissions. 	<p>Rule 335-3-1-.05 40 CFR 60.675(b) (2)</p> <p>40 CFR 60.675(c) (1)</p> <p>Rule 335-3-1-.05 40 CFR 60.675(b) (1)</p>
<u>Emission Monitoring</u>	
<ol style="list-style-type: none"> 1. An observation of each emission point associated with this source will be accomplished at least weekly. If any visible emissions are noted during the above-referenced visual checks, corrective action shall be initiated within 2 hours to reduce the emissions. 	<p>Rule 335-3-16-.05(c)</p>

Federally Enforceable Provisos	Regulations
2. After the corrective action has been performed, the permittee shall conduct another visual check to ensure that the visible emissions have been eliminated.	Rule 335-3-16-.05(c)
3. Each pollution control device shall be inspected and cleaned at least annually.	Rule 335-3-16-.05(c)
<u>Recordkeeping and Reporting Requirements</u>	
1. Records of all visual checks and corrective actions taken shall be maintained in a form suitable for inspection and kept on site for a period of at least 5 years.	Rule 335-3-16-.05(c)
2. The permittee shall submit a written report of exceedences of the stack opacity to the Department semi-annually.	Rule 335-3-16-.05(c)

Summary Page for Clay Preparation and Storage

Permitted

Operating Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
C-1	Clay Crusher	PM	4.10(P) ^{.67}	ADEM Admin. Code R. 335-3-4-.04
G-1 & G-2	Clay Grinders			
CP-1	Clay Preparation Baghouse			
Fugitive Emissions	Clay Preparation and Storage (Storage Bins and Conveyors)	Opacity	10 % opacity from any transfer point on belt conveyors or from any other affected facility	40 CFR 60 – Subpart 000
C-1	Clay Crusher		The building enclosing the NSPS Subpart 000 affected units shall not exhibit any visible fugitive emissions except emissions from a vent	
G-1 & G-2	Clay Grinders			
			From any crusher, at which a capture system is not used, fugitive emissions can not exhibit greater than 15 % opacity	
CP-1	Clay Preparation Baghouse	Opacity	(See General Proviso 29)	ADEM Admin. Code R. 335-3-4-.01(1)

Provisos for Clay Preparation and Storage

Federally Enforceable Provisos	Regulations
<u>Applicability</u>	
1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. The Clay Crusher (C-1), Clay Grinders (G-1 & G-2), two (2) 200-ton Storage Bins, and associated Belt Conveyors are subject to the applicable requirements of Federal New Source Performance Standards (NSPS) 40 CFR 60 Subpart OOO.	40 CFR 60 Subpart OOO
<u>Emission Standards</u>	
1. Fugitive emissions shall not exceed 10 % opacity from any transfer point on belt conveyors or from any other NSPS Subpart OOO affected facility.	40 CFR 60.672(b)
2. The building enclosing NSPS Subpart OOO affected units shall not exhibit any visible fugitive emissions except emissions from a vent.	40 CFR 60.672(e) (1)
3. Emissions from any crusher, at which a capture system is not used, shall exhibit no greater than 15% opacity.	40 CFR 60.672(c)
4. Stack emissions not subject to NSPS Subpart OOO are subject to emission standards listed in General Proviso 29.	Rule 335-3-4-.01(1)
<u>Compliance and Performance Test Methods and Procedures</u>	
1. EPA Reference Method 9 of Appendix A of CFR; Title 40, Part 60 (Latest Edition) or alternative approved by the Department will be used in the determination of the opacity of the stack emissions.	Rule 335-3-1-.05
2. EPA Reference Method 9 of Appendix A of CFR; Title 40, Part 60 (Latest Edition), with the additions in 40 CFR 60.675(c), will be used in determining compliance with 40 CFR 60.672(b).	40 CFR 60.675(c) (1)
3. EPA Reference Method 5 of Appendix A of CFR; Title 40, Part 60 (Latest Edition) or alternative approved by the Department will be used for any testing conducted to determine compliance with particulate matter emissions.	Rule 335-3-1-.05

Emission Monitoring

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| 1. An observation of each emission point associated with this source will be accomplished at least weekly while in operation. | Rule 335-3-16-.05(c) |
| 2. If the instantaneous opacity observed from the Clay Preparation Baghouse (CP-1) is greater than ten (10%) percent, then then corrective action shall be taken within two (2) hours to identify and correct the problem. | Rule 335-3-16-.05(c) |
| 3. If the instantaneous opacity observed from units subject to NSPS Subpart OOO is greater than zero (0%) percent, then then corrective action shall be taken within two (2) hours to identify and correct the problem. | Rule 335-3-16-.05(c) |
| 4. After the corrective action has been performed, the permittee shall conduct another visual check to ensure that the visible emissions have been reduced. | Rule 335-3-16-.05(c) |
| 5. Each pollution control device shall be inspected and cleaned at least annually. | Rule 335-3-16-.05(c) |

Recordkeeping and Reporting Requirements

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| 1. Records of all visual checks and corrective actions taken shall be maintained in a form suitable for inspection and kept on site for a period of at least 5 years. | Rule 335-3-16-.05(c) |
| 2. The permittee shall submit a written report of exceedence of the stack opacity to the Department semi-annually. | Rule 335-3-16-.05(c) |

Summary Page for Dust Control Systems

Permitted

Operating Schedule: 24 Hrs/day x 7 Days/week x 52 Weeks/yr = 8760 Hrs/yr

Emission limitations:

Emission Point #	Description	Pollutant	Emission limit	Regulation
BH-1	Various Pick-Up Points in Plant and Sand Silos with Mixing/Handling Equipment	PM	4.10(P) ^{.67}	ADEM Admin. Code R. 335-3-4-.04
BH-2	Various Pick-Up Points in Plant 2			
BH-1	Sand Silos and Sand Conveyors	PM	0.022gr/dscf	40 CFR 60 – Subpart 000
BH-1	Sand Silos with Mixing/Handling Equipment	PM	3.40 lb/hr	Anti-PSD
BH-1	Sand Silos and Sand Conveyors	Opacity	Stack emissions shall not exceed 7% opacity. 10 % opacity from any transfer point on belt conveyors or from any other affected facility The building enclosing the NSPS Subpart 000 affected units shall not exhibit any visible fugitive emissions except emissions from a vent	40 CFR 60 – Subpart 000
BH-1	Various Pick-Up Points in Plant and Sand Silos with Mixing/Handling Equipment	Opacity	(See General Proviso 29)	ADEM Admin. Code R. 335-3-4-.01(1)
BH-2	Various Pick-Up Points in Plant 2			

Provisos for Dust Control Systems

Federally Enforceable Provisos	Regulations
<u>Applicability</u>	
1. This source is subject to the applicable requirements of ADEM Admin. Code R. 335-3-16-.03, "Major Source Operating Permits".	Rule 335-3-16-.03
2. This source has enforceable limits in place in order to prevent it from being subject to the provisions of ADEM Admin. Code R. 335-3-14-.04, "Air Permits Authorizing Construction in Clean Air Areas [Prevention of Significant Deterioration]".	Rule 335-3-14-.04
3. The Sand Silos and Sand Belt Conveyors are subject to the applicable requirements of Federal New Source Performance Standards (NSPS) 40 CFR 60 Subpart OOO.	40 CFR 60 Subpart OOO
<u>Emission Standards</u>	
1. Particulate matter emissions from the Sand Silos with Mixing/Handling Equipment (BH-1) shall not exceed 3.40 lb/hr.	Rule 335-3-14-.04
2. Particulate matter emissions from the Sand Silos and Sand Conveyors (BH-1) shall not exceed 0.022 gr/dscf.	40 CFR 60.672(a) (1)
3. Stack emissions not subject to NSPS Subpart OOO are subject to emission standards listed in General Provisos 29 and 31.	Rule 335-3-4-.01(1) Rule 335-3-4-.04
4. Stack emissions from Federal New Source Performance Standards (NSPS) 40 CFR 60 Subpart OOO affected units shall not exceed 7% opacity.	40 CFR 60.672(a) (2)
5. Fugitive emissions can not exceed 10 % opacity from any transfer point on belt conveyors or from any other affected facility.	40 CFR 60.672(b)
6. The building enclosing NSPS Subpart OOO affected units any visible fugitive emissions except emissions from a vent.	40 CFR 60.672(e) (1)
<u>Compliance and Performance Test Methods and Procedures</u>	
1. EPA Reference Method 9 of Appendix A of CFR; Title 40, Part 60 (Latest Edition) or alternative approved by the Department will be used in the determination of the opacity of the stack emissions	Rule 335-3-1-.05 40 CFR 60.675(b) (2)
2. EPA Reference Method 9 of Appendix A of CFR; Title 40, Part 60 (Latest Edition), with the additions in 40 CFR 60.675(c), will be used in determining compliance with 40 CFR 60.672(b).	40 CFR 60.675(c) (1)

Federally Enforceable Provisos	Regulations
3. EPA Reference Method 5 of Appendix A of CFR; Title 40, Part 60 (Latest Edition) or alternative approved by the Department will be used for any testing conducted to determine compliance with particulate matter emissions.	Rule 335-3-1-.05 40 CFR 60.675(b) (1)
<u>Emission Monitoring</u>	
1. An observation of each emission point associated with this source will be accomplished at least weekly while in operation.	Rule 335-3-16-.05(c)
2. If the instantaneous opacity observed from the Plant 2 Baghouse (BH-2) is greater than ten (10%) percent, then then corrective action shall be taken within two (2) hours to identify and correct the problem.	Rule 335-3-16-.05(c)
3. If the instantaneous opacity observed from units subject to NSPS Subpart OOO is greater than zero (0%) percent, then then corrective action shall be taken within two (2) hours to identify and correct the problem.	
4. After the corrective action has been performed, the permittee shall conduct another visual check to ensure that the visible emissions have been reduced.	Rule 335-3-16-.05(c)
5. Each pollution control device shall be inspected and cleaned at least annually.	Rule 335-3-16-.05(c)
<u>Recordkeeping and Reporting Requirements</u>	
1. Records of all visual checks and corrective actions taken shall be maintained in a form suitable for inspection and kept on site for a period of at least 5 years.	Rule 335-3-16-.05(c)
2. The permittee shall submit a written report of exceedence of the stack opacity to the Department semi-annually.	Rule 335-3-16-.05(c)